



NASA Headquarters  
Washington, DC 20546

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HOWI8400 - M017  
REVISION B  
JUNE 27, 2000

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# Code M NASA / DoD GPS Coordination Process

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**Code M**  
**NASA / DoD GPS Coordination Process**

Approved and signed by

Joseph H. Rothenberg  
Associate Administrator, Office of Space Flight

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#### DOCUMENT HISTORY LOG

Status (Draft/ Baseline/ Revision/ Canceled)	Document Revision	Effective Date	Description
Baseline		12-16-1998	
Revision	A	04-16-1999	Revised as a result of the DNV Pre-Registration audit. Section 5 modified to include DoD COMSEC OFFICE & Section 7 modified to add note to action #4. Section 7 records modified to agree with retention criteria of NPG 1441.1B.
Revision	B	06-07-2000	Identified the output in the flow chart and amended the archival requirement.
Admin Chang	B	06-27-2000	Administrative Change to correct reference document title.

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## 1.0 PURPOSE

The purpose of this OWI is to document the process for negotiating an agreement with DoD for NASA access and use of the GPS Precise Positioning Service (PPS).

The Associate Administrator (AA) for the Office of Space Flight (OSF) is responsible for ensuring maintenance of this document. The controlled version of the manual is available on the world wide web (WWW) via the HQ ISO 9000 Document Library for the ISO 9000 QMS at <http://hqiso9000.hq.nasa.gov>. By definition, any printed version of this OWI is uncontrolled. Any proposed revision to this manual is submitted by the AA for OSF or his designee. The AA for OSF or his designee, authorizes approval of the revision after an internal review by the Document Control Board.

## 2.0 SCOPE

This OWI is for coordinating the NASA and Department of Defense (DoD) Global Positioning System (GPS) agreement and developing annexes to the agreement.

## 3.0 DEFINITIONS The following terms and acronyms are used in this OWI:

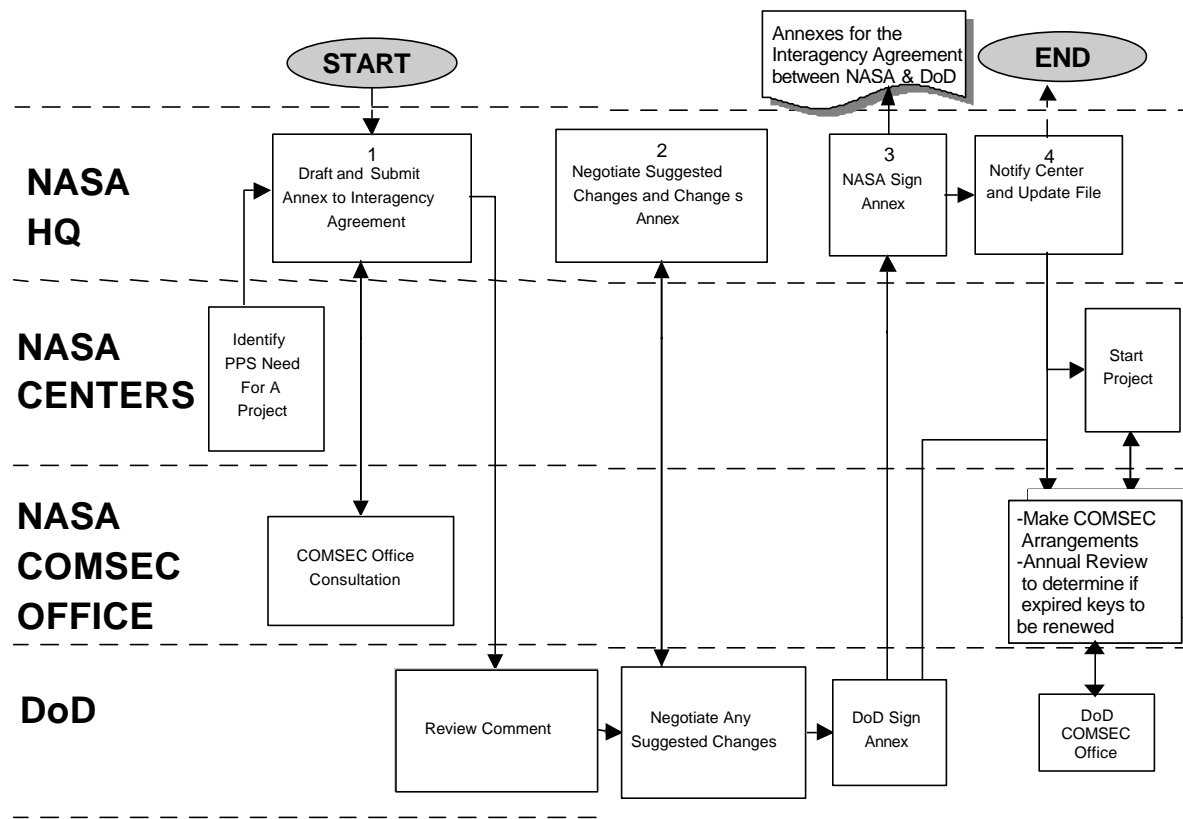
MOA	Memorandum of Agreement – A significant, binding National agreement. It contains a very high level Statement of requirements and may address monetary Issues, when appropriate
GPS	Global Positioning System – A DoD operated, satellite navigation system
PPS	Precise Positioning Service – A precise military signal from GPS
COMSEC	Communication Security – A security office providing secure Communications
NASA GPS Coordinator	Manages this process in OSF

## 4.0 REFERENCES

HQSM 1200-1	Headquarters Quality System Manual
DoD-090	Interagency Agreement Between NASA and DoD for Access To and Use of the Global Positioning System Precise Positioning Service (Interagency MOA on GPS)
NPD-8900	NASA Use of Global Positioning System Precise Positioning Service

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## 5.0 FLOWCHART



**NOTE:** The primary product of this process is an annex to the Interagency MOA on GPS.

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## 6.0 NASA/DoD GPS COORDINATION PROCESS STEPS

Some NASA missions that have elected to use the DoD's Global Positioning System (GPS) may require access to and use of the Precise Positioning Service (PPS) which can only be accessed and used by employing specialized cryptographic equipment provided by DoD. NASA has negotiated an Interagency Agreement to obtain the necessary equipment when both agencies agree on the terms of the use. This process describes the actions required to negotiate an agreement with DoD for NASA access and use of the GPS PPS.

### Flowchart

<u>Reference</u>	<u>Actionee</u>	<u>Action</u>
1	NASA GPS Coordinator	<p>Receives Project Manager's request resulting from his decision that the use of the GPS Precise Positioning Service is essential for his Project in order to:</p> <ol style="list-style-type: none"> <li>1) Achieve the level of position accuracy needed by the Project, or,</li> <li>2) Protect the availability of the GPS signal in an environment where either intentional or unintentional signal interference may be encountered.</li> </ol> <p>In response to this request, the NASA GPS Coordinator drafts an Annex to the DoD / NASA Interagency Agreement for Access to and Use of GPS PPS. NASA Headquarters provides in the Annex the following information:</p> <p><u>Objective:</u> brief description of the Project needing the GPS PPS</p> <p><u>Background:</u> description of the Project's goals in terms of NASA's scientific or technology goals and why accurate position or signal protection is needed.</p> <p><u>Specific Application:</u> description of how GPS will be employed on the Project and describing equipment to be used in providing the Precise Positioning Service.</p>

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Special Terms and Conditions: identifies any special terms or conditions noted by the Project. (Will also serve as a location for adding any special DoD terms or conditions agreed to later in the negotiation process.)

Security: documents agreements made with Project's local Communication Security (COMSEC) office concerning safe guarding of the PPS equipment, keying material, or any security sensitive information relative to the Project's use of GPS PPS.

Schedule: specifies the Project's anticipated schedule relative to use of GPS PPS. Pertinent information such as launch dates, operational periods, pre-launch testing dates, and Project completion dates should be included.

Amendment and Termination: specifies the process for amending the Annex as well as identifies the date of termination for the Interagency agreement on access and use of GPS PPS for the specific Project covered by the Annex.

Effective Date: identifies the agreed to starting date.

Provides Draft Annex to DoD for review.

2 NASA GPS  
Coordinator

Negotiate any comments on the proposed Annex Coordinator received from DoD. If necessary coordinate with Project Manager and / or COMSEC Office depending upon nature of DoD comments.

3 NASA Deputy  
Administrator  
for Space Flight  
(Shuttle)

Review and approve. Retain one copy and return one signed copy to DoD.



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4      NASA GPS Coordinator  
         Office that

Notify Project Manager and Center COMSEC

Annex is signed. Archive MOA Annex file. Note:  
Center COMSEC office will initiate an annual review of  
the Annex with DoD COMSEC office upon expiration of  
annual keys and renewal of keying material by DoD  
COMSEC office.

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## 7.0 RECORDS

RECORD IDENTIFICATION	OWNER	LOCATION	RECORD MEDIA: ELECTRONIC OR HARD COPY	SCHEDULE NUMBER AND ITEM NUMBER	RETENTION/DISPOSITION
Annexes for the Interagency Agreement between NASA & DoD. (Interagency MOA on GPS)	M-3	M-3	Hardcopy	Schedule 1 Item 6,C	Destroy when obsolete or superseded.